

B3  
1 15. (Once Amended) The coil of claim 14, wherein the cross-sectional area of the  
2 segments that define the inactive leg portion is smaller than the cross-sectional area of the  
3 remaining segments that define the first and second active leg portions.

B4  
1 17. (Once Amended) The coil of claim 16, wherein the cross-sectional area of the  
2 segments that define the inactive leg portion is smaller than the cross-sectional area of the  
3 remaining segments that define the first and second active leg portions.

B5  
1 25. (Once Amended) The coil of claim 6, with the first and second active leg portions  
2 curving inward of the band, and the inactive leg portion curving outward of the band.

1 26. (Once Amended) The coil of claim 16, with the first and second active leg portions  
2 curving inward of the band, and the inactive leg portion curving outward of the band.

~~Cancel claims 21-24 and 27-30.~~

Add the following claims:

1 31. A voice coil for driving an actuator arm to various positions over a disk of a disk  
2 drive, the voice coil comprising:

3 a spiral winding of conductive material defining a band with a generally triangular shape  
4 having an open center, wherein the spiral winding includes:

5 a first active leg portion that curves inwardly of the band;

B6  
6 a second active leg portion that curves inwardly of the band;

7 an inactive leg portion;

8 a first curved corner portion connecting the first and second active leg portions;

9 a second curved corner portion connecting the first active leg portion and the  
10 inactive leg portion; and

11 a third curved corner portion connecting the second leg portion and the inactive  
12 leg portion.

- 1 32. The voice coil of claim 31, wherein the spiral winding is a planar coil.
- 1 33. The voice coil of claim 31, wherein the spiral winding is a single-layer coil.
- 1 34. The voice coil of claim 31, wherein the spiral winding is a planar single-layer coil.
- 1 35. The voice coil of claim 31, wherein the spacing between each loop of the spiral  
2 winding remains substantially the same throughout the spiral winding.
- 1 36. The voice coil of claim 31, wherein the height of the spiral winding remains  
2 substantially the same throughout the spiral winding.
- 1 37. The voice coil of claim 31, wherein the spacing between each loop of the spiral  
2 winding remains substantially the same throughout the spiral winding, and the height of the  
3 spiral winding remains substantially the same throughout the spiral winding.
- 1 38. The voice coil of claim 31, wherein a width of spiral winding segments defining  
2 the inactive leg portion is substantially smaller than a width of spiral winding segments defining  
3 the first and second active leg portions.
- 1 39. The voice coil of claim 38, wherein a width of spiral winding segments defining  
2 the first active leg portion is the same as a width of spiral winding segments defining the second  
3 active leg portion.
- 1 40. The voice coil of claim 31, wherein a cross-sectional area of spiral winding  
2 segments defining the inactive leg portion is substantially smaller than a cross-sectional area of  
3 spiral winding segments defining the first and second active leg portions.

1           41.     The voice coil of claim 40, wherein a cross-sectional area of spiral winding  
2 segments defining the first active leg portion is the same as a cross-sectional area of spiral  
3 winding segments defining the second active leg portion.

1           42.     The voice coil of claim 31, further comprising a top insulative layer and a bottom  
2 insulative layer, wherein the spiral winding is sandwiched between the top and bottom insulative  
3 layers.

1           43.     The voice coil of claim 42, wherein the top and bottom insulative layers are  
2 polyimide and the spiral winding is copper.

1           44.     The voice coil of claim 42, wherein the top insulative layer is secured to the spiral  
2 winding by an adhesive.

1           45.     The voice coil of claim 42, wherein the bottom insulative layer is secured to the  
2 spiral winding by an adhesive.

1           46.     The voice coil of claim 42, wherein the top and bottom insulative layers are  
2 secured to the spiral winding by adhesives.

1           47.     A voice coil for driving an actuator arm to various positions over a disk of a disk  
2 drive, the voice coil comprising:

3                 a spiral winding of conductive material defining a flat band with a generally triangular  
4 shape having an open center, wherein the spiral winding is adapted to interact with the magnetic  
5 field of permanent magnets of the disk drive, and the spiral winding is a continuous planar  
6 single-layer coil that includes:

7                     a first active leg portion that curves inwardly of the band;

8                     a second active leg portion that curves inwardly of the band;

9                     an inactive leg portion;

10                    a first curved corner portion connecting the first and second active leg portions;

11 a second curved corner portion connecting the first active leg portion and the  
12 inactive leg portion; and  
13 a third curved corner portion connecting the second leg portion and the inactive  
14 leg portion.

1 48. The voice coil of claim 47, wherein the spacing between each loop of the spiral  
2 winding remains substantially the same throughout the spiral winding, and the height of the  
3 spiral winding remains substantially the same throughout the spiral winding.

1 49. The voice coil of claim 47, wherein a cross-sectional area of spiral winding  
2 segments defining the inactive leg portion is substantially smaller than a cross-sectional area of  
3 spiral winding segments defining the first and second active leg portions, and a cross-sectional  
4 area of spiral winding segments defining the first active leg portion is the same as a cross-  
5 sectional area of spiral winding segments defining the second active leg portion.

1 50. The voice coil of claim 47, further comprising a top insulative layer and a bottom  
2 insulative layer, wherein the spiral winding is sandwiched between the top and bottom insulative  
3 layers and secured to the top and bottom insulative layers by adhesives.

1 51. A voice coil for driving an actuator arm to various positions over a disk of a disk  
2 drive, the voice coil comprising:

3 a spiral winding of conductive material defining a band with a generally triangular shape  
4 having an open center, wherein the spiral winding includes:

5 a first active leg portion defined by segments having a first cross-sectional area;

6 a second active leg portion defined by segments having a second cross-sectional  
7 area;

8 an inactive leg portion defined by segments having a third cross-sectional area,  
9 wherein the third cross-sectional area is smaller than the first cross-sectional area, and the third  
10 cross-sectional area is smaller than the second cross-sectional area;

11 a first curved corner portion connecting the first and second active leg portions;

12 a second curved corner portion connecting the first active leg portion and the  
13 inactive leg portion; and  
14 a third curved corner portion connecting the second leg portion and the inactive  
15 leg portion.

1 52. The voice coil of claim 51, wherein the spiral winding is a planar coil.

1 53. The voice coil of claim 51, wherein the spiral winding is a single-layer coil.

1 54. The voice coil of claim 51, wherein the spiral winding is a planar single-layer coil.

1 55. The voice coil of claim 51, wherein the spacing between each loop of the spiral  
2 winding remains substantially the same throughout the spiral winding.

1 56. The voice coil of claim 51, wherein the height of the spiral winding remains  
2 substantially the same throughout the spiral winding.

1 57. The voice coil of claim 51, wherein the spacing between each loop of the spiral  
2 winding remains substantially the same throughout the spiral winding, and the height of the  
3 spiral winding remains substantially the same throughout the spiral winding.

1 58. The voice coil of claim 51, wherein a width of the segments defining the inactive  
2 leg portion is substantially smaller than a width of the segments defining the first and second  
3 active leg portions.

1 59. The voice coil of claim 58, wherein a width of the segments defining the first  
2 active leg portion is the same as a width of the segments defining the second active leg portion.

B6  
Cont

1           60.     The voice coil of claim 51, wherein the cross-sectional area of the segments  
2     defining the inactive leg portion is substantially smaller than the cross-sectional area of the  
3     segments defining the first and second active leg portions.

1           61.     The voice coil of claim 60, wherein the cross-sectional area of the segments  
2     defining the first active leg portion is the same as the cross-sectional area of the segments  
3     defining the second active leg portion.

1           62.     The voice coil of claim 51, further comprising a top insulative layer and a bottom  
2     insulative layer, wherein the spiral winding is sandwiched between the top and bottom insulative  
3     layers.

136  
Cont  
1           63.     The voice coil of claim 62, wherein the top and bottom insulative layers are  
2     polyimide and the spiral winding is copper.

1           64.     The voice coil of claim 62, wherein the top insulative layer is secured to the spiral  
2     winding by an adhesive.

1           65.     The voice coil of claim 62, wherein the bottom insulative layer is secured to the  
2     spiral winding by an adhesive.

1           66.     The voice coil of claim 62, wherein the top and bottom insulative layers are  
2     secured to the spiral winding by adhesives.

1           67.     A voice coil for driving an actuator arm to various positions over a disk of a disk  
2     drive, the voice coil comprising:

3                 a spiral winding of conductive material defining a flat band with a generally triangular  
4     shape having an open center, wherein the spiral winding is adapted to interact with the magnetic  
5     field of permanent magnets of the disk drive, and the spiral winding is a continuous planar  
6     single-layer coil that includes:

7 a first active leg portion defined by segments having a first cross-sectional area;  
8 a second active leg portion defined by segments having a second cross-sectional  
9 area;

10 an inactive leg portion defined by segments having a third cross-sectional area,  
11 wherein the third cross-sectional area is smaller than the first cross-sectional area, and the third  
12 cross-sectional area is smaller than the second cross-sectional area;

13 a first curved corner portion connecting the first and second active leg portions;

14 a second curved corner portion connecting the first active leg portion and the  
15 inactive leg portion; and

16 a third curved corner portion connecting the second leg portion and the inactive  
17 leg portion.

1 68. The voice coil of claim 67, wherein the spacing between each loop of the spiral  
2 winding remains substantially the same throughout the spiral winding, and the height of the  
3 spiral winding remains substantially the same throughout the spiral winding.

1 69. The voice coil of claim 67, wherein the cross-sectional area of the segments  
2 defining the inactive leg portion is substantially smaller than the cross-sectional area of the  
3 segments defining the first and second active leg portions, and a cross-sectional area of the  
4 segments defining the first active leg portion is the same as a cross-sectional area of the segments  
5 defining the second active leg portion.

1 70. The voice coil of claim 67, further comprising a top insulative layer and a bottom  
2 insulative layer, wherein the spiral winding is sandwiched between the top and bottom insulative  
3 layers and secured to the top and bottom insulative layers by adhesives.